May 2014
900883-001
Rev 00

TouchTunes

PLAYDIUM Camera FRU Installation Guide

Purpose

This document provides information about the Playdium Camera Field-Replaceable Unit (TouchTunes p/n: 600213-001) and shows how to perform the replacement of the camera on a Playdium jukebox.

Audience

- TouchTunes Playdium Jukebox Operators
- TouchTunes field service and customer support

Estimated Time

15 minutes

Required Personnel

1 Technician

This document includes the following task types:

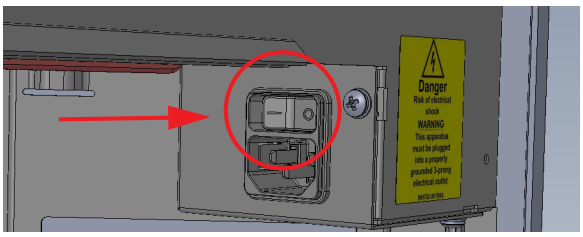
☐	Software
☑	Electrical
☑	Mechanical
☐	Packaging

Topics

- Important Safety Information
- Included in This Kit
- Before You Begin
- Removing the Camera
- Installing the Replacement Camera
- Finishing Up
- Contacting TouchTunes Technical Support

Important Safety Information

WARNING: When performing this procedure or any other maintenance on your jukebox, the unit must be powered off.



IMPORTANT: A properly-grounded anti-static wrist strap should be worn at all times during the procedure presented below.

Included in This Kit

Ensure that you have received all the required parts before proceeding with this installation.

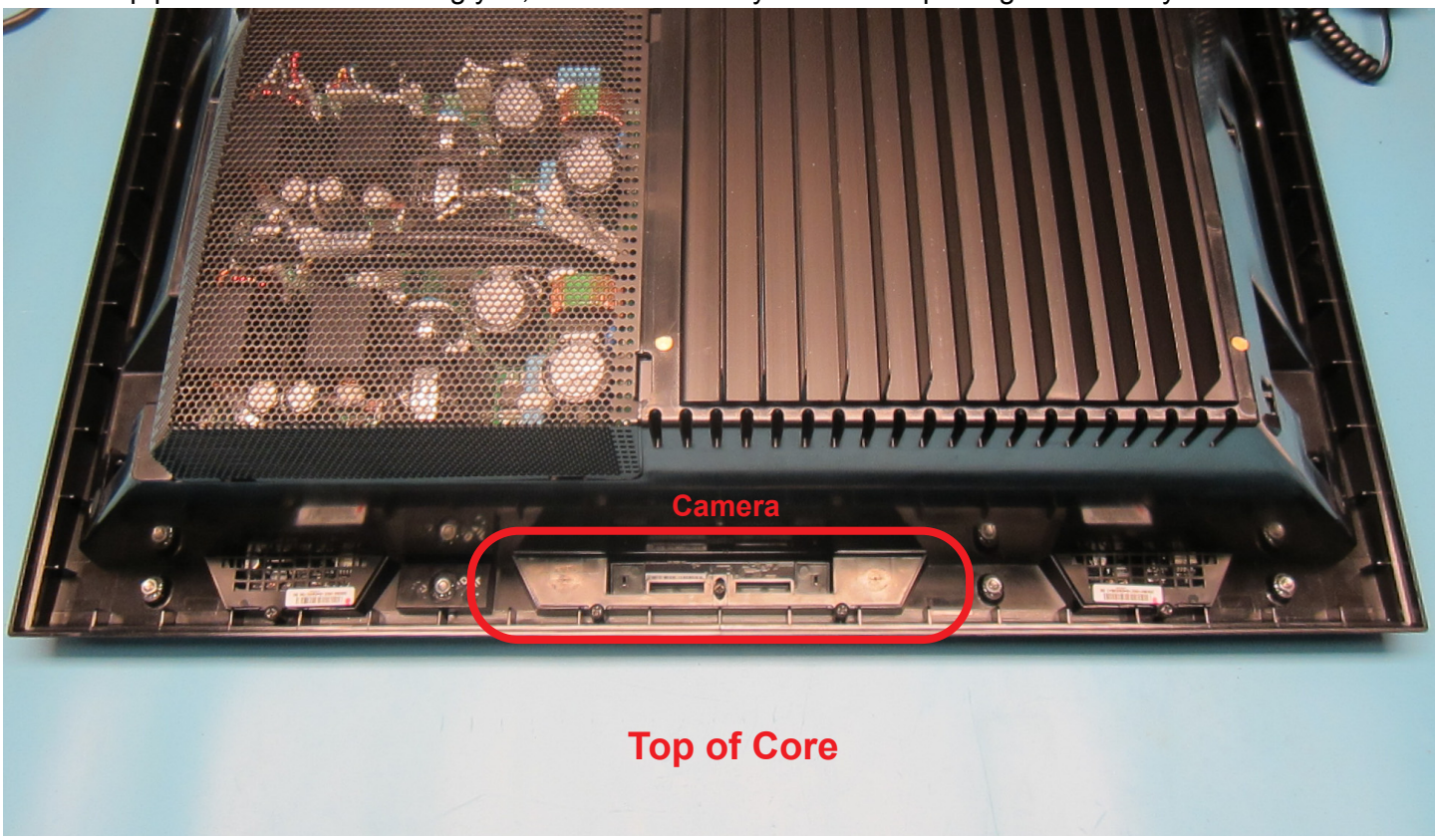
Part	Amount	TouchTunes Part #
Camera assembly	1	401265-001
Screw for camera	2	200249-004
This document	1	900883-001

Before You Begin

You will need a flat, level surface (such as a table or counter) that is covered with a tablecloth or some similar soft covering. You will be placing the Playdium core flat, with its touchscreen glass facing down, on such a surface; the cloth will prevent damaging the glass.

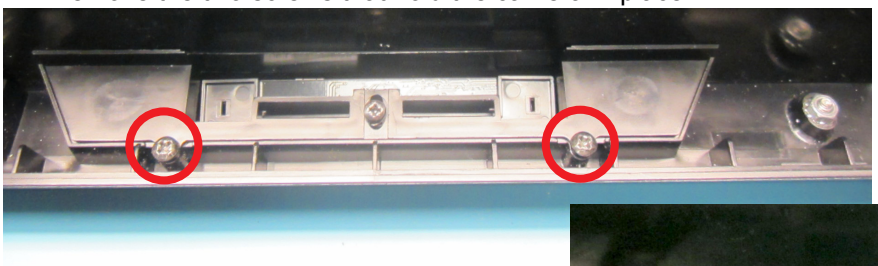
The following steps all need to be performed on the Playdium Core, while it is out of its chassis. The proper procedure for ejecting the core from the chassis appears in both the Playdium Quick Start Guide (TouchTunes p/n 900785-001) and the Playdium Installation and Setup Guide (TouchTunes p/n 900774-001). This guide assumes that you have already removed the core from its chassis, and does not provide the steps to replace the core on its chassis, at the end of the procedure.

Once you have removed the core from its chassis, place it on the cloth-covered flat surface you prepared. Ensure that the top part of the core is facing you, so that the flash you will be replacing is close to you:



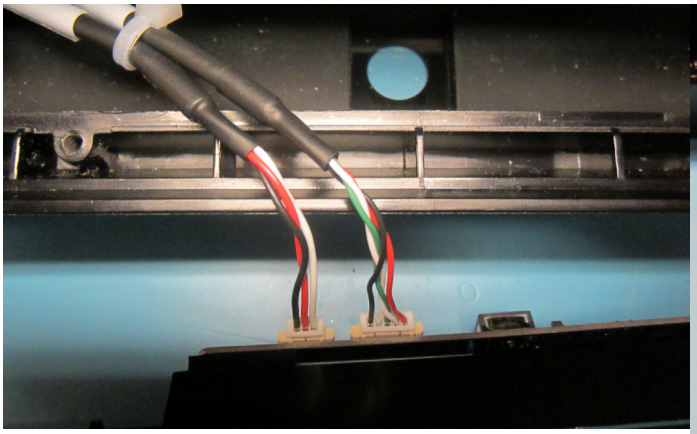
Removing the Camera

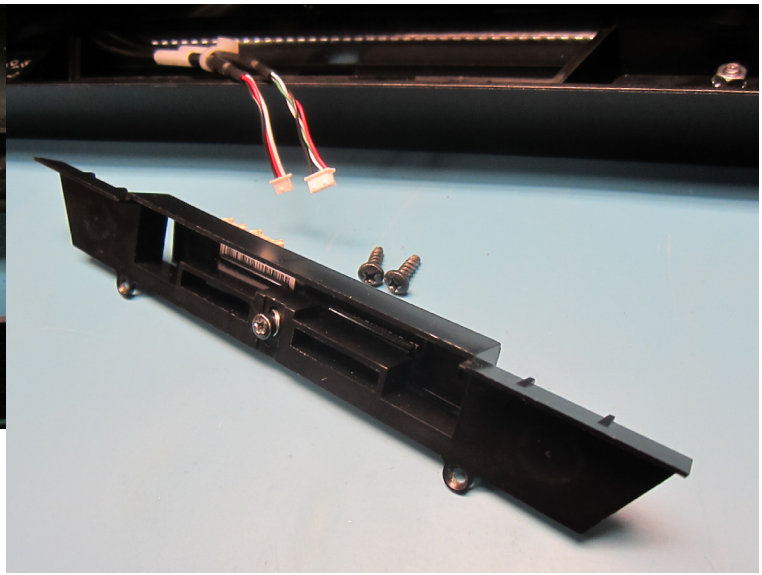
1. Remove the two screws that hold the camera in place.



2. Lift one corner of the camera assembly, then pull out the camera from its housing.

3. There are two cables connected to the camera. Disconnect both cables. ***Do not let the cables fall back inside the core!*** Consider using a piece of tape to stick the cables to the outside of the core while you prepare the replacement camera.



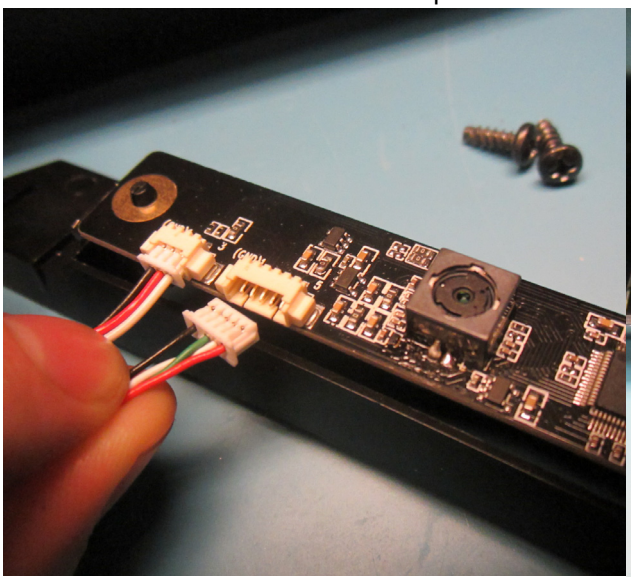


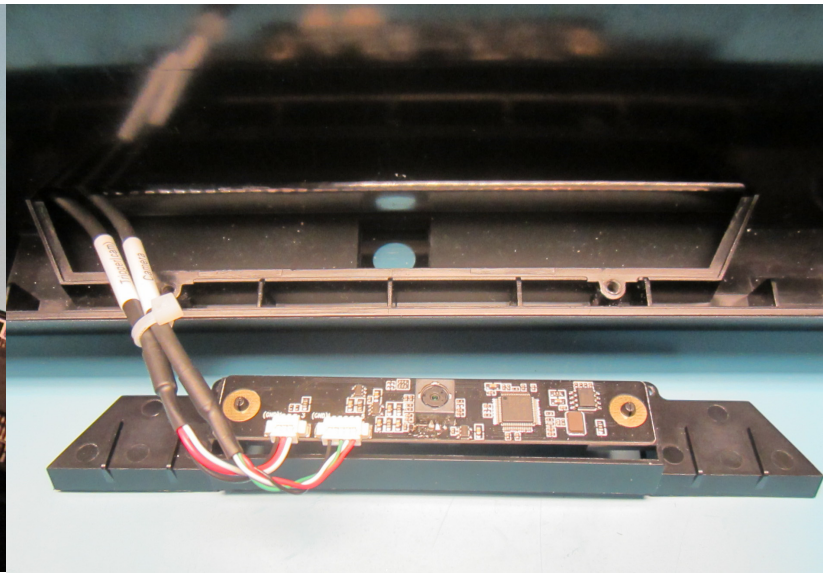
Installing the Replacement Camera

1. There is a protective film on the camera lens. Remove this film before proceeding with the installation.

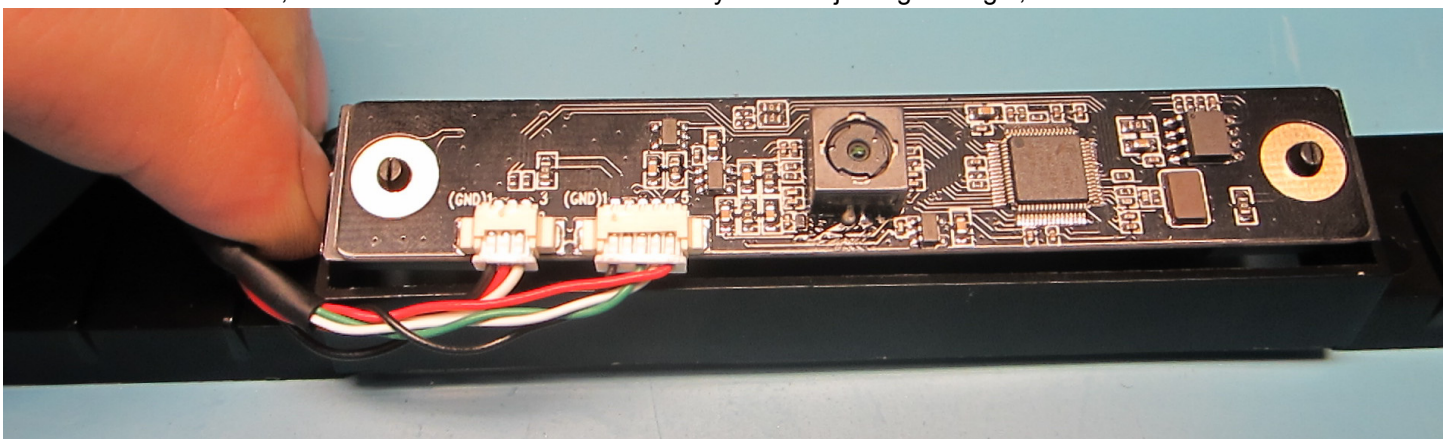
Note: As you install the replacement camera, take care not to touch the tiny camera lens, as that could lead to degraded picture quality in the photos taken by the camera.

2. Connect the two cables to the replacement camera.



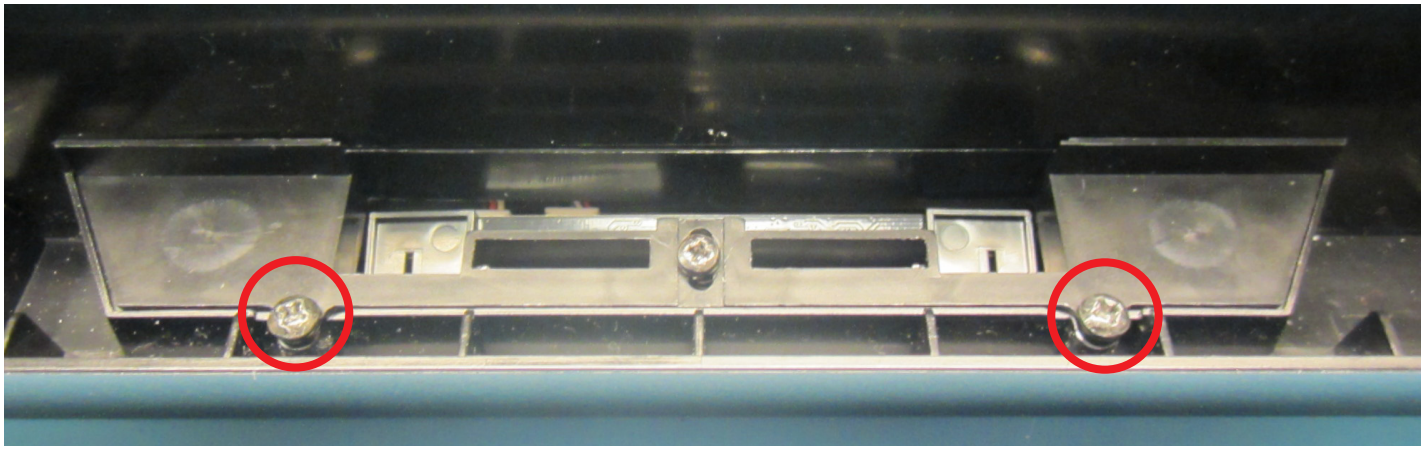


3. Bend the cables near the connectors to point them off to the side, around the camera board; this will make it easier to reinsert the camera, and it will let the camera move freely when adjusting its angle, later.



4. Insert the camera into its housing on the core, pushing the edge opposite the cables in first, then pushing the entire assembly into place.

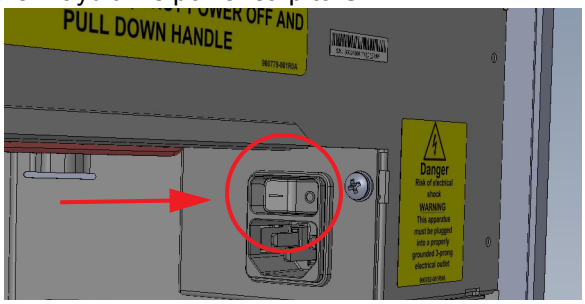
5. Fasten the camera to the core using the two screws you removed earlier. Extra screws are provided in this FRU kit, if needed.



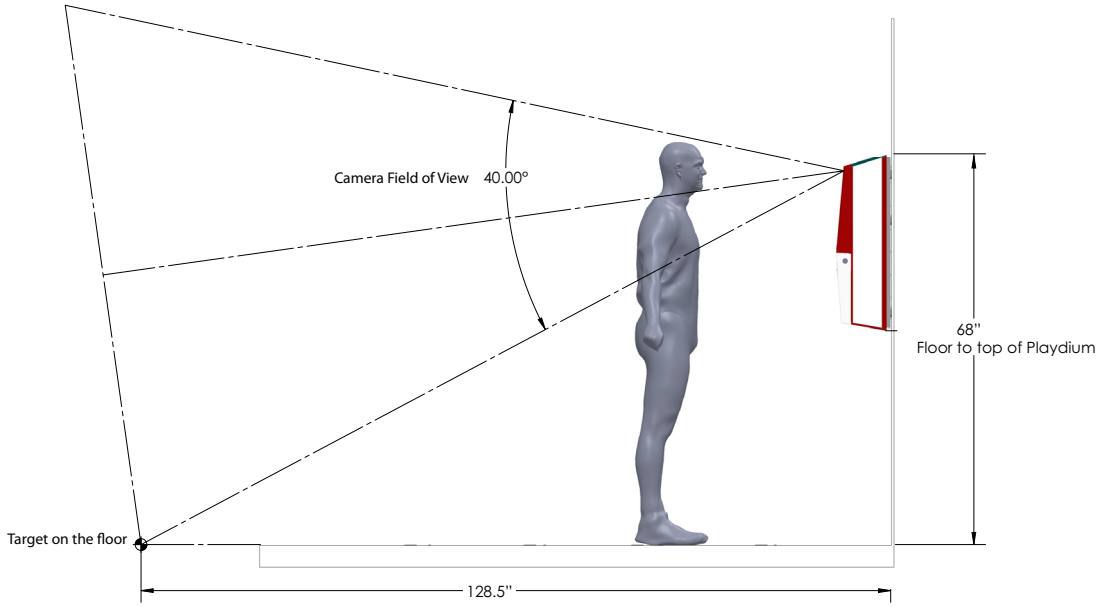
Camera Angle and White Balance Calibration

CAUTION: *Do not power up Playdium immediately after installing a core that was brought in from a cold place into a warm place, as condensation may have occurred on internal components. Wait for the unit to reach room temperature before using it.*

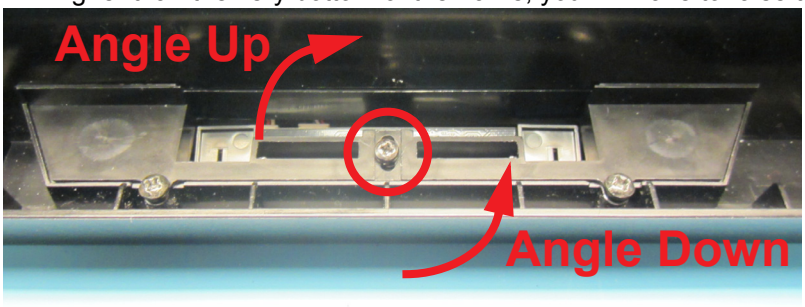
1. Reinstall the core back into the Playdium chassis, as per the steps in the Playdium Installation and Setup Guide.
2. Set the power rocker switch on the Playdium's power strip to **ON**.



3. While Playdium boots, place a target on the floor, 128.5" away from the wall where Playdium is mounted, directly in front of the jukebox. Use something that will contrast with the floor, so it can be easily seen on camera.



4. After Playdium has fully booted, press the MNGR button on the backplane, and navigate to Hardware > Camera.
5. Look at the bottom of the camera image: the target should be at the very bottom of the frame. If that's the case, proceed to step 6, to calibrate the white balance. If the target is not visible, you will have to lower the angle of the camera; if it is higher than the very bottom of the frame, you will have to raise the angle of the camera.



To adjust the angle of the camera, follow these steps:

1. Turn off Playdium's power.
2. Remove the core, and set it screen down, keeping the edge with the camera near you.
3. Turn the camera adjustment screw to change the angle.
    a. Turning counter-clockwise lowers the camera angle
    b. Turning clockwise raises the camera angle
4. Turn the screw by a quarter turn in the appropriate direction, then dock the core back into the chassis, and boot up again.
5. Repeat steps 1-4 until the target is aligned with the bottom of the camera frame.

6. Once the camera is properly angled, press the "Calibrate White Balance" button below the camera image, and follow the on-screen prompts.
7. Close the payment panel by gently pulling it up and shut, then pressing on its front face to engage the locking mechanism.
8. Secure the payment panel by using the key to lock its case.

Contacting TouchTunes Technical Support

If you need help with or have questions about this document, contact TouchTunes by:

- using the e-mail links on the Contacts page on the TouchTunes Dashboard at https://operator.touchtunes.com
- calling TouchTunes 24/7 Service Hotline at 847-353-1954

To help us assist you more effectively with problem reports, this information may be required when contacting TouchTunes Support:

- Jukebox model, such as Playdium, Virtuo, Allegro MX-1, Ovation
- Jukebox ID
- the serial number of any component you believe to be defective
- the date/time of the problem
- actions performed immediately before the problem occurred
- any additional comments

TouchTunes Interactive Networks, Inc.	TouchTunes Interactive Networks, Inc.	Technical Support
400 Sainte Croix Avenue, Suite 200 E Montreal, Quebec, Canada, H4N 3L4	850 Third Ave, Suite 15C New York, NY 10022 USA	847-353-1954 www.touchtunes.com

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